COURSE DESCRIPTION

Rubric & No. | GEOG 2039 | Title | Cartographic Drafting and Graphic Presentation |
Semester Hours of Credit | 3 |

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes _ No_____ N/A __X__

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter: Geography BA (no concentration, GIS concentration, DSM concentration), Geography BS (no concentration, GIS concentration, DSM concentration), Geography minor, GIS minor, a Geography 3+3 program.

Is this course a prerequisite or corequisite for any other courses? (If answer to above is "yes", please list courses by rubric and course number. (If additional space is needed, please attach a separate piece of paper.)

Rubric _____ Course # ______ Rubric _____ Course # ______ Rubric _____ Course # ______ Rubric _____ Course # ______
Yes ______ No __X__

Is this course on the general education list? If yes, attach approval of drop from General Education Committee
Yes _____ No __X__

REASON FOR REQUEST TO DROP COURSE: The faculty member who taught this course retired several years ago. The manual techniques that were taught in this course have been supplanted by computer-based cartography and are no longer relevant in the discipline. The department does not intend to offer the course again and the faculty voted to drop it at a faculty meeting on April 15, 2016.

APPROVALS

Department Faculty Approval Date | 4/15/2016 | College Faculty Approval Date | 10/12/16

Department Chair Signature | (date) | Graduate Dean Signature | (date)

College Dean Signature | (date) | Chair, FS CSC Committee | 11/3/16

Academic Affairs Approval | (date) |
## Request for Changing an Existing Course

<table>
<thead>
<tr>
<th>Department</th>
<th>Geography and Anthropology</th>
<th>College</th>
<th>Humanities and Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Rubric &amp; Number</td>
<td>Geog 4047</td>
<td>Date</td>
<td>4/21/2016</td>
</tr>
</tbody>
</table>

### Present Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>Geographic Information System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td>Lecture: ____ Lab/Sem/Rec:____</td>
</tr>
<tr>
<td>Repeat Credit Max. (if repeatable):</td>
<td>Yes x No ____</td>
</tr>
<tr>
<td>Contact Hours Per Week: (Indicate hours in appropriate course type.)</td>
<td>Lecture: 3 Lab: Seminar: Recitation: Intern: Res/Ind: Clin/Pract:</td>
</tr>
<tr>
<td>Total Weekly Contact Hours: 3</td>
<td></td>
</tr>
<tr>
<td>Grading System: Letter Grade x Pass/Fail ____</td>
<td></td>
</tr>
</tbody>
</table>

Course Description: (Include course number, title, etc. exactly as it appears in the General Catalog)

**GEOG 4047 Geographic Information System**

Prereq.: CSC 1250 or CSC 1253 or equivalent. Geographic information systems used in land resource management and planning; data structures and algorithms for automated retrieval and analysis of spatial data; structuring cartographic data into spatial data; integration of remotely sensed data into geographic information systems.

### Proposed Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>Geographic Information System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Title</td>
<td>GI S</td>
</tr>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td>Lecture: 2 Lab/Sem/Rec:____</td>
</tr>
<tr>
<td>Repeat Credit Max. (if repeatable):</td>
<td>Yes x No ____</td>
</tr>
<tr>
<td>Contact Hours Per Week: (Indicate hours in appropriate course type.)</td>
<td>Lecture: 3 Lab: Seminar: Recitation: Intern: Res/Ind: Clin/Pract:</td>
</tr>
<tr>
<td>Total Weekly Contact Hours: 3</td>
<td></td>
</tr>
<tr>
<td>Grading System: Letter Grade x Pass/Fail ____</td>
<td></td>
</tr>
</tbody>
</table>

Course Description: (Include course number, title, etc. exactly as it appears in the General Catalog)

**GEOG 4047 Geographic Information System**

Geographic information systems used in land resource management and planning; data structures and algorithms for automated retrieval and analysis of spatial data; structuring cartographic data into spatial data; integration of remotely sensed data into geographic information systems.

### Approvals

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>4/15/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Faculty Approval Date</td>
<td>10-12-16</td>
</tr>
</tbody>
</table>

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.
Instructions for Form C. · Request for Changing a Course

Justification of the change

The current content of GEOG 4047 (Geographic Information Systems or GIS) does not require any background in computer programming, and it primarily uses the GIS package ArcGIS. The prerequisite course CSC 1250 (Intro to Programming) or CSC 1253 (Computer Science I with C++) is no longer needed. Removing this prerequisite makes the course more accessible.

See the attached e-mail support from Dr. Bijaya Karki, Department of Computer Science.
Instructions for **Form C** · Request for Changing a Course

This course is presently *included* or *referenced* in the following *curriculum, minor, concentration, area of specialization, or catalog chapter*:

Geography BA (no concentration, GIS concentration, DSM concentration), Geography BS (no concentration, GIS concentration, DSM concentration), Geography minor, GIS minor, DSM minor
Hi,

I support the removal of the prerequisite course CSC 1250 (Intro to Programming) or CSC 1253 (Computer Science I with C++) for the GEOG 4047 (Geographic Information Systems or GIS).

Thanks,
Bijay

On Mon, 19 Sep 2016 22:01:26 +0000, Fahui Wang wrote
> Thanks a lot, Jerry! I thought that you lead the whole division and
> could speak for CSC.
> Dr. Karki:
> I appreciate you could get back to
> me soon. I will be on a trip beginning Wed so really hope to submit
> the paperwork before the trip. Thanks in advance!
> Fahui
> > From: Jerry L Trahan
> > Sent: Monday, September 19, 2016 4:26 PM
> > To: Fahui Wang
> > Cc: Linda T Strain; Bijaya B Karki
> > Subject: Fwd: an email of support for dropping a prerequisite course
> > {CSC 1253} in Geog 4047
> > >
> > > This should go to Bijaya Karki, who is chair of Computer Science, so
> > > [UTF-8]?lâ€™m forwarding this to him. [UTF-8]?lâ€™m chair of
> > > Electrical & Computer Engineering, so my support [UTF-8]?wouldnâ€™t do
> > > you much good here.)
> > >
> > > --Jerry
> > > -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
> > >
> > > Jerry L. Trahan
> > > Chair, Division of Electrical & Computer
> > > Engineering
> > > Chevron Associate Professor
> > > of Electrical Engineering
> > > School of
> > > Electrical Engineering & Computer Science
> > >
> > > 102A Electrical Engineering Building
> > >
> > > Louisiana State University
> > > Baton Rouge, LA 70803
Phone: (225) 578-5243
E-mail:
jtrahan@lsu.edu

Begin forwarded message:

From: Fahui Wang <fwang@lsu.edu>
Subject: an email of support for dropping a prerequisite course (CSC 1253) in Geog 4047
Date: September 19, 2016 at 4:11:16 PM CDT
To:
jtrahan@lsu.edu
Cc: Linda

I am writing to ask for your email of support for our course revision proposal, which is attached below. The current content of GEOG 4047 (Geographic Information Systems or GIS) does not require any background in computer programming, and it primarily uses the ArcGIS package. The prerequisite course CSC 1250 (Intro to Programming) or CSC 1253 (Computer Science I with C++) is no longer needed.

Removing this prerequisite makes the course more accessible.

If you could provide a short email of support for this, I would really appreciate it.

Thank you for your consideration,

Fahui

Fahui Wang, PhD

James J. Parsons Professor

Chair, Department of Geography & Anthropology

Louisiana State University

Baton Rouge, LA 70803

http://ga.lsu.edu/faculty/fahui-wang/

(available http://www.crcpress.com/product/isbn/9781466584723)
Bijaya Bahadur Karki, PhD
Chair and Professor, Computer Science and Engineering Division
School of Electrical Engineering and Computer Science
Adjunct Professor, Department of Geology and Geophysics
Faculty Member, Center for Computation and Technology
Louisiana State University
102F Electrical Engineering Bldg, Baton Rouge, LA 70803
Ph: 225-5781252, Fax: 225-5781465
karki@csc.lsu.edu | www.cse.lsu.edu/~karki

***************
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department: Geography and Anthropology  College: Humanities and Social Sciences  Date: 10/6/16
Name of Minor: Geography

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected (i.e. any department whose course(s) are to be added).

ACTION (check appropriate box):

( ) ADDING: Show the entire new minor using catalog format. Use plain sheets and attach.
(x) CHANGING: List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column use strikeout and bold to indicate deletions and additions. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the minor on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the minor on plain sheets and attach.

MINOR

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current minor:</td>
<td>18</td>
</tr>
<tr>
<td>Requirements for a minor in geography are one course selected from GEOG 1001 or GEOG 1003; GEOG 2050 and GEOG 2051; one course selected from GEOG 2039, GEOG 4020, GEOG 4041, and GEOG 4045; and two additional 3000 or 4000 level geography courses.</td>
<td>Requirements for a minor in geography are one course selected from GEOG 1001 or GECG 1003; GEOG 2050 and GEOG 2051; one course selected from GEOG 2039, GEOG 2080, GEOG 4020, GEOG 4041, and GEOG 4045; and two additional 3000 or 4000 level geography courses.</td>
</tr>
</tbody>
</table>

APPROVALS:
Department Faculty Approval Date: 11/14/14
Department Chair’s Signature: John B. Hoppe 10/16/16
Chair, FS C & C Committee: 11/12/14
College/Division/Department Contact: 

College Faculty Approval Date: 10-12-16
College Dean’s Signature: 10/12/16
Academic Affairs Approval: 11/10/16

JUSTIFICATION of changes to Geography Minor.
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is being added as an option.
**REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR**

**Department**  Geography and Anthropology  **College**  Humanities and Social Sciences  **Date**  10/6/16

**Name of Minor**  Geographic Information Science

Has this change been discussed with and approved by all departments/colleges affected?  

Yes ( )  No ( )  N/A ( x )

**ATTACH JUSTIFICATION** for all actions: Use separate sheet.  
**ATTACH RESPONSE** from any departments affected (i.e. any department whose course(s) are to be added).

**ACTION (check appropriate box):**

( ) ADDING:  Show the entire new minor using catalog format. Use plain sheets and attach.

( x ) CHANGING:  List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column use strikeout and bold to indicate deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING:  Provide an adequate explanation for suspending the minor on plain sheets and attach.

( ) DROPPING:  Provide an adequate explanation for dropping the minor on plain sheets and attach.

**MINOR**

<table>
<thead>
<tr>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total semester hours in current minor:</strong> 15</td>
<td><strong>Total semester hours in proposed minor:</strong> 15</td>
</tr>
<tr>
<td>The minor in Geographic Information Systems (GIS) provides students with training in critical GIS skills in acquiring, managing, analyzing, and presenting spatial data and prepares them for an ever expanding GIS job market in the public, not-for-profit, or private sectors.</td>
<td>The minor in Geographic Information Systems (GIS) provides students with training in critical GIS skills in acquiring, managing, analyzing, and presenting spatial data and prepares them for an ever expanding GIS job market in the public, not-for-profit, or private sectors.</td>
</tr>
<tr>
<td>To graduate with a minor in GIS, students must complete 15 hours of coursework. Prerequisites may extend the hours beyond fifteen.</td>
<td>To graduate with a minor in GIS, students must complete 15 hours of coursework. Prerequisites may extend the hours beyond fifteen.</td>
</tr>
<tr>
<td>Required core courses (nine hours): GEOG 4045, GEOG 4047, GEOG 4048: Selecting from (six hours): GEOG 2039, GEOG 2040, GEOG 4020, GEOG 4042, GEOG 4044, GEOG 4046, ENVS 4145, ENVS 4149 or any courses approved by the program director.</td>
<td>Required core courses (nine hours): GEOG 4045, GEOG 4047, GEOG 4048: Selecting from (six hours): GEOG 2039, GEOG 2040, GEOG 4020, GEOG 4042, GEOG 4044, GEOG 4046, ENVS 4145, ENVS 4149 or any courses approved by the program director.</td>
</tr>
</tbody>
</table>

**APPROVALS:**

**Department Faculty Approval Date**  11/14/14  

**Department Chair's Signature**  

**College Faculty Approval Date**  10/2/16  

**College Dean's Signature**  

**Academic Affairs Approval**  10/2/16  

**Contact Email**

**JUSTIFICATION** of changes to GIS Minor.
Steve Namikas, Geography undergraduate advisor

Geog 2039 is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: Geography and Anthropology
College: Humanities and Social Sciences
Name of Curriculum/Major: Geography BA
Type of Degree: BA
Date: 10/6/16

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new curriculum, by semester, must be typed on plain sheets and attached to Form D. (See sample layout attached.)

( x ) CHANGING: Regardless if all semesters of a curriculum are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date 11/14/14
College Faculty Approval Date 10-12-16

Department Chair's Signature
(Date)

College Dean's Signature
(Date)

Chair, FS C & C Committee
(Date)

Academic Affairs Approval
(Date)

College/Division/Department Contact: __________________________
(Please print name.)

Contact E-mail: __________________________


GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>General Education arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence: GEOG 2050/2051</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education natural science course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course: GEOG 1001 or 1003</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
JUSTIFICATION of changes to Geography B.A. curriculum
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is being added as an option.
PRESENT

CRITICAL REQUIREMENT

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: GEOG 2010 or GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000
Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the “General Education Requirements” section of the catalog.

Semester 1

- CRITICAL: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Analytical Reasoning (from mathematics) (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
Total Semester Hours: 16

Semester 2

- CRITICAL: GEOG 1001 or GEOG 1003.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (3)
- General Education Course - Humanities (other than foreign language) (3)
Total Semester Hours: 13

Semester 3

- GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- GEOG 2010 Human Geography (3)
- GEOG 2040 Geospatial Technology (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (other than foreign language) (3)
- General Education Course - Life Sciences (3)
Total Semester Hours: 16-15

Semester 4

- GEOG 2010 or GEOG 2040; Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- Fourth Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (2000-level) (3)
- Approved Electives (5-7)
Total Semester Hours: 15-16

Semester 5

- General Education Course - Arts (3)
- GEOG Elective: Regional Group (3)
- Approved Electives (9)
Total Semester Hours: 15

Semester 6

- GEOG Elective: Mapping Sciences (3)
- GEOG Elective: Systematic Group (3)
- General Education Course - Humanities (other than foreign language) (3)
- Approved Electives (6)
Total Semester Hours: 15

Semester 7

- Upper Division Geography Elective (3)
- Approved Electives (12)
Total Semester Hours: 15

Semester 8

- GEOG Elective: Systematic Group (3)
- Approved Electives (12)
Total Semester Hours: 15

120 Total Sem. Hrs.

1 - MAPPING SCIENCES: GEOG 2038, GEOG 4020, GEOG 4041, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048
2 - REGIONAL GROUP: ANTH 4051, GEOG 3001, GEOG 4002, GEOG 4031, GEOG 4037, GEOG 4052, or other approved regional course.
3 - SYSTEMATIC GROUP: GEOG 3070, GEOG 4012, GEOG 4061, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4090, or other approved systematic geography course
PROPOSED

CRITICAL REQUIREMENT

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: GEOG 2010 or GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000.
Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the “General Education Requirements” section of the catalog.

Semester 1

- CRITICAL: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (2) or GEOG 1003 Human Geography: Africa and Asia (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Analytical Reasoning (from mathematics) (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Total Semester Hours: 16

Semester 2

- CRITICAL: GEOG 1001 or GEOG 1003.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (3)
- General Education Course - Humanities (other than foreign language) (3)
- Total Semester Hours: 13

Semester 3

- GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- GEOG 2010 Human Geography (3)
- GEOG 2040 Geospatial Technology (3);
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (other than foreign language) (3)
- General Education Course - Life Sciences (3)
- Total Semester Hours: 16-15

Semester 4

- GEOG 2010 or GEOG 2040; Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- Fourth Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (2000-level) (3)
- Approved Electives (3-7)
- Total Semester Hours: 15-16

Semester 5

- General Education Course - Arts (3)
- GEOG Elective: Regional Group (3)2
- Approved Electives (9)
- Total Semester Hours: 15

Semester 6

- GEOG Elective: Mapping Sciences (3)1
- GEOG Elective: Systematic Group (3)1
- General Education Course - Humanities (other than foreign language) (3)
- Approved Electives (6)
- Total Semester Hours: 15

Semester 7

- Upper Division Geography Elective (3)
- Approved Electives (12)
- Total Semester Hours: 15

Semester 8

- GEOG Elective: Systematic Group (3)3
- Approved Electives (12)
- Total Semester Hours: 15

120 Total Sem. Hrs.

1 - MAPPING SCIENCES: GEOG 4020, GEOG 4041, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048
2 - REGIONAL GROUP: ANTH 4051, GEOG 3001, GEOG 4002, GEOG 4031, GEOG 4037, GEOG 4052 or other approved regional course.
3 - SYSTEMATIC GROUP: GEOG 2080, GEOG 3070, GEOG 4012, GEOG 4081, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4090, or other approved systematic geography course
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: Geography and Anthropology
College: Humanities and Social Sciences
Name of Curriculum/Major: Geography BS
Type of Degree: BS
Date: 10/6/16

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new curriculum, by semester, must be typed on plain sheets and attached to Form D. (See sample layout attached.)

( x ) CHANGING: Regardless if all semesters of a curriculum are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

**CURRICULUM**

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
</tr>
</tbody>
</table>

**APPROVALS:**

Department Faculty Approval Date: 11/14/14

Department Chair's Signature: [Signature] (Date: 10/6/16)

College Faculty Approval Date: 10/12/16

College Dean's Signature: [Signature] (Date: [Signature])

Chair, FS C & C Committee: [Signature] (Date: 11/1/16)

Academic Affairs Approval: [Signature] (Date: 11/10/16)

College/Division/Department Contact: [Name] (Please print name.)

Contact E-mail: [Email]
**GENERAL EDUCATION REQUIREMENTS**

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
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<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department): MATH 1021</td>
<td>3</td>
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<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course: MATH 1022</td>
<td>3</td>
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<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence: GEOG 2050/2051</td>
<td>6</td>
<td></td>
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<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course: GEOG 1001 or 1003</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
JUSTIFICATION of changes to Geography B.S. curriculum
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is being added as an option.
PRESENT

CRITICAL REQUIREMENT

SEMESTER 1: "C" or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003; MATH 1021.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: Second Course in Foreign Language Sequence.
SEMESTER 5: GEOG 2040; ENGL 2000.
Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the "General Education Requirements" section of the catalog.

Semester 1

- CRITICAL: "C" or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- MATH 1021 College Algebra (3)
- First Course in Foreign Language Sequence (4)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Total Semester Hours: 16

Semester 2

- CRITICAL: GEOG 1001 or GEOG 1003; MATH 1021.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Humanities (other than foreign language) (3)
- General Education Course - Life Sciences (3)
- Total Semester Hours: 13

Semester 3

- CRITICAL: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- CSC 1250 Introduction to Programming (3) or CSC 1253 Computer Science I with C++ (3)
- MATH 1022 Plane Trigonometry (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (other than GEOG; 2000-level) (3)
- General Education Course - Humanities (other than ENGL or foreign language) (3)
- Total Semester Hours: 16-15

Semester 4

- CRITICAL: Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- GEOG 2040 Geospatial Technology (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- Fourth Course in Foreign Language Sequence (4-3)
- Total Semester Hours: 15-14

Semester 5

- CRITICAL: GEOG 2040; ENGL 2000.
- EXST 2201 Introduction to Statistical Analysis (4)
- GEOG Elective: Mapping Sciences or Physical Geography (3)
- General Education course - Arts (3)
- General Education course - Humanities (other than foreign language) (3)
- Approved Elective (3)
- Total Semester Hours: 16

Semester 6

- GEOG Elective(s): Mapping Sciences or Physical Geography (3-6)
- Science Elective (3000-level or above and other than GEOG) (3)
- Approved Electives (9)
- Total Semester Hours: 15-18

Semester 7

- GEOG Elective(s): Mapping Sciences or Physical Geography (6-3)
- Approved Electives (9)
- Total Semester Hours: 15-12

Semester 8

- GEOG Electives: Mapping Sciences or Physical Geography (6)
- Approved Electives (8-10)
- Total Semester Hours: 14-16
- 120 Total Sem. Hrs.

GEOG ELECTIVES

- MAPPING SCIENCES: GEOG 2638, GEOG 4020, GEOG 4041, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048.
- PHYSICAL GEOGRAPHY: GEOG 3013, GEOG 3070, GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4029, GEOG 4083, GEOG 4221.
PROPOSED

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003; MATH 1021.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: Second Course in Foreign Language Sequence.
SEMESTER 5: GEOG 2040; ENGL 2000.
Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the “General Education Requirements” section of the catalog. Semester 1

- CRITICAL: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- MATH 1021 College Algebra (3)
- First Course in Foreign Language Sequence (4)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
Total Semester Hours: 18

Semester 2

- CRITICAL: GEOG 1001 or GEOG 1003; MATH 1021.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Humanities (other than foreign language) (3)
- General Education Course - Life Sciences (3)
Total Semester Hours: 13

Semester 3

- CRITICAL: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- CSC 1250 Introduction to Programming (3) or CSC 1253 Computer Science I with C++ (3).
- MATH 1022 Plane Trigonometry (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (other than GEOG; 2000-level) (3)
- General Education Course - Humanities (other than ENGL or foreign language) (3)
Total Semester Hours: 16-15

Semester 4

- CRITICAL: Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- GEOG 2040 Geospatial Technology (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- Fourth Course in Foreign Language Sequence (4-3)
Total Semester Hours: 15-14

Semester 5

- CRITICAL: GEOG 2040; ENGL 2000.
- EXSI 2201 Introduction to Statistical Analysis (4)
- GEOG Elective: Mapping Sciences or Physical Geography (3)
- General Education course - Arts (3)
- General Education course - Humanities (other than foreign language) (3)
- Approved Elective (3)
Total Semester Hours: 16

Semester 6

- GEOG Elective(s): Mapping Sciences or Physical Geography (3-6)
- Science Elective (3000-level or above and other than GEOG) (3)
- Approved Electives (9)
Total Semester Hours: 15-18

Semester 7

- GEOG Elective(s): Mapping Sciences or Physical Geography (6-3)
- Approved Electives (9)
Total Semester Hours: 15-12

Semester 8

- GEOG Electives: Mapping Sciences or Physical Geography (6)
- Approved Electives (8-10)
Total Semester Hours: 14-16

120 Total Sem. Hrs.

GEOG ELECTIVES

- MAPPING SCIENCES: GEOG 4020, GEOG 4041, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048.
- PHYSICAL GEOGRAPHY: GEOG 2080, GEOG 3013, GEOG 3070, GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4029, GEOG 4033, GEOG 4221.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department Geography and Anthropology
College Humanities and Social Sciences
Name of Concentration Disaster Science and Management
Name of Curriculum/Major Geography
Type of Degree BA
Date 10/6/16

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A ( x )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)
( x ) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
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<tbody>
<tr>
<td>Total semester hours in current concentration:</td>
<td>12</td>
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</table>

APPROVALS:
Department Faculty Approval Date 9/18/15
College Faculty Approval Date 10-12-16

Department Chair's Signature 10/6/16
College Dean's Signature 1/8/16

Chair, FS C & C Committee 1/21/10
Academic Affairs Approval 11/10/10

College/Division/Department Contact: ____________________________

Contact E-mail: ____________________________
GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

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<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>1st (6th) 2nd (6th) 3rd (7th) 4th (8th)</td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td>1st (5th) 2nd (5th) 3rd (6th) 4th (8th)</td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td>1st (5th) 2nd (5th) 3rd (6th) 4th (8th)</td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
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<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
<td>3</td>
<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
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<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
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<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence: GEOG 2050/2051</td>
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<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
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<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education natural science course</td>
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<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course: GEOG 1001 or 1003</td>
<td>3</td>
<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
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<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td>1st (5th) 2nd (6th) 3rd (7th) 4th (8th)</td>
</tr>
</tbody>
</table>
JUSTIFICATION of changes to concentration in DSM (under BS/BA in Geog. 
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is being added as an option.
PRESENT

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000.

Semester 1

• Critical: “C” or better in ENGL 1001.
• ENGL 1001 English Composition (3)
• GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
• GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
• Plant and Animal Realms (3)
• First Course in Foreign Language Sequence (4)
• General Education Course - Analytical Reasoning (From Mathematics) (3)
Total Semester Hours: 16

Semester 2

• Critical: GEOG 1001 or GEOG 1003.
• GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
• Plant and Animal Realms (3)
• Second Course in Foreign Language Sequence (4)
• General Education Course - Analytical Reasoning (3)
• General Education Course - Humanities (Other than English or Foreign Language) (3)
Total Semester Hours: 13

Semester 3

• Critical: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
• GEOG 2040 Geospatial Technology (3)
• GEOG 2010 Human Geography (3)
• Third Course in Foreign Language Sequence (4-3)
• General Education Course - Life Sciences Lecture (3)
• General Education Course - Humanities (Other than English or Foreign Language) (3)
Total Semester Hours: 16-15

Semester 4

• Critical: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
• ENGL 2000 English Composition (3)
• Fourth Course in Foreign Language Sequence (4-3)
• General Education Course - Social Sciences (2003-level) (3)
• Approved Electives (5-7)
Total Semester Hours: 15-16

Semester 5


• General Education Course - Arts (3)
• Geography Elective: Regional Group (3)
• DSM Course* (3)
• Approved Electives (6)
Total Semester Hours: 15

Semester 6

• DSM Course*: One of the three Mapping Sciences (3)
• Geography Electives: Systematic Group (3)
• General Education Course- Humanities (Other Than Foreign Language) (3)
• Approved Electives (6)
Total Semester Hours: 15

Semester 7

• Upper Division Geography Elective (3)
• DSM Course* (3)
• Approved Electives (9)
Total Semester Hours: 15

Semester 8

• Geography Electives: Systematic Group (3)
• DSM Course* (3)
• Approved Electives (9)
Total Semester Hours: 15

120 Total Sem. Hrs.

GEOG ELECTIVES:

1. MAPPING SCIENCES: GEOG 2030, GEOG 4020, GEOG 4030, GEOG 4040, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048.
2. REGIONAL GROUP: ANTH 4051, GEOG 3001, GEOG 4022, GEOG 4031, GEOG 4037, GEOG 4052, or other approved regional course.
3. SYSTEMATIC GROUP: GEOG 3070, GEOG 4012, GEOG 4061, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4090, or other approved systematic geography course.
*DSM Courses: GEOG 2200, GEOG 2210, GEOG 4200; and one of the three mapping sciences classes (GEOG 4044, GEOG 4045, GEOG 4047)
PROPOSED

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000.

Semester 1
- Critical: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- First Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (From Mathematics) (3)

Total Semester Hours: 16

Semester 2
- Critical: GEOG 1001 or GEOG 1003.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 13

Semester 3
- Critical: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- GEOG 2040 Geospatial Technology (3)
- GEOG 2010 Human Geography (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Life Sciences Lecture (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 16-15

Semester 4
- Critical: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- Fourth Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (2000-level) (3)
- Approved Electives (5-7)

Total Semester Hours: 15-16

Semester 5
- General Education Course - Arts (3)
- Geography Elective: Regional Group¹ (3)
- DSM Course* (3)
- Approved Electives (6)

Total Semester Hours: 15

Semester 6
- DSM Course*: One of the three Mapping Sciences (3)
- Geography Electives: Systematic Group (3)²
- General Education Course- Humanities (Other Than Foreign Language) (3)
- Approved Electives (6)

Total Semester Hours: 15

Semester 7
- Upper Division Geography Elective (3)
- DSM Course* (3)
- Approved Electives (9)

Total Semester Hours: 15

Semester 8
- Geography Electives: Systematic Group³ (3)
- DSM Course* (3)
- Approved Electives (9)

Total Semester Hours: 15

120 Total Sem. Hrs.

GEOG ELECTIVES:

¹ MAPPING SCIENCES: GEOG 4020, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048
² REGIONAL GROUP: ANTH 4051, GEOG 3001, GEOG 4002, GEOG 4031, GEOG 4037, GEOG 4052, or other approved regional course.
³ SYSTEMATIC GROUP: GEOG 2080, GEOG 3070, GEOG 4012, GEOG 4061, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4090, or other approved systematic geography course.
* DSM Courses: GEOG 2200, GEOG 2210, GEOG 4200; and one of the three mapping sciences classes (GEOG 4044, GEOG 4045, GEOG 4047)
REQUEST FOR ADDING, CHANGING, SUSPENDING
OR DROPPING AN
UNDERGRADUATE CONCENTRATION

Department Geography and Anthropology
College Humanities and Social Sciences
Name of Concentration Geographic Information Science
Name of Curriculum/Major Geography
Type of Degree BA

Date 10/6/16

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A ( x )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
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ACTION (check appropriate box):

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CONCENTRATION

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<td>Total semester hours in proposed concentration: 12</td>
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APPROvals:

Department Faculty Approval Date 11/13/15

College Faculty Approval Date 10-12-16

Department Chair’s Signature 10/6/16

College Dean’s Signature (Date)

Chair, FS C & C Committee 11/3/16

 Academic Affairs Approval 4/10/16

College/Division/Department Contact:

Contact E-mail:
# GENERAL EDUCATION REQUIREMENTS

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</table>
| English Composition (6 hrs.)  | ENGL 1001 or 1004                                                        | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | ENGL 2000                                                                | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
| Analytical Reasoning (6 hrs.) | General Education analytical reasoning course (from mathematics department) | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | General Education analytical reasoning course                             | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
| Arts (3 hrs.)                 | General Education arts course                                             | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
| Humanities (9 hrs.)           | General Education humanities course                                       | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | General Education humanities course                                       | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | General Education humanities course                                       | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
| Natural Sciences (9 hrs.)     | General Education natural science course sequence: GEOG 2050/2051         | 6            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | General Education natural science course                                  | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
| Social Sciences (6 hrs.)      | General Education social science course: GEOG 1001 or 1003               | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
|                               | General Education social science course (2000-level)                      | 3            | (x) 1<sup>st</sup> 5<sup>th</sup> 
(x) 2<sup>nd</sup> 6<sup>th</sup> 
(x) 3<sup>rd</sup> 7<sup>th</sup>
(x) 4<sup>th</sup> 8<sup>th</sup> |
JUSTIFICATION of changes to concentration in GIS (under BS/BA in Geog.
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who
taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is
being added as an option.
PRESENT

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000.

Semester 1

- Critical: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- First Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (From Mathematics) (3)
- GEOG 1001 Human Geography; Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
Total Semester Hours: 16

Semester 2

- Critical: GEOG 1001 or GEOG 1003.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
Total Semester Hours: 13

Semester 3

- Critical: GEOG 2050 or GEOG 2051. First Course in Foreign Language Sequence; Admission to the College.
- GEOG 2040 Geospatial Technology (3)
- GEOG 2010 Human Geography (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
- General Education Course - Life Sciences Lecture (3)
Total Semester Hours: 16-15

Semester 4

- Critical: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- Fourth Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (2000-level) (3)
- Approved Electives (5-7)
Total Semester Hours: 15-16

Semester 5

- General Education Course - Arts (3)
- Geography Elective: Regional Group 2 (3)
- Geography Elective: Mapping Sciences 1 (3)
- Approved Electives (6)
Total Semester Hours: 15

Semester 6

- Geography Electives: Mapping Sciences 1 (6)
- Geography Electives: Systematic Group 2 (3)
- General Education Course - Humanities (Other Than Foreign Language) (3)
- Approved Electives (3)
Total Semester Hours: 15

Semester 7

- Upper Division Geography Elective (3)
- Geography Elective: Mapping Sciences 1 (3)
- Approved Electives (9)
Total Semester Hours: 15

Semester 8

- Geography Electives: Systematic Group 2 (3)
- Approved Electives (12)
Total Semester Hours: 15

120 Total Sem. Hrs.

GEOG ELECTIVES:

1. MAPPING SCIENCES: GEOG 2039, GEOG 4020, GEOG 4044, GEOG 4046, GEOG 4047, GEOG 4048.
2. REGIONAL GROUP: ANTH 4051; GEOG 3001, GEOG 4002, GEOG 4031, GEOG 4037, GEOG 4052, or other approved regional course.
3. SYSTEMATIC GROUP: GEOG 3070, GEOG 4012, GEOG 4061, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4088, or other approved systematic geography course.
PROPOSED

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence. Admission to the College.
SEMESTER 4: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
SEMESTER 5: ENGL 2000.

Semester 1
- Critical: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- First Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (From Mathematics) (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Total Semester Hours: 16

Semester 2
- Critical: GEOG 1001 or GEOG 1003.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Analytical Reasoning (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
- Total Semester Hours: 13

Semester 3
- Critical: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- GEOG 2040 Geospatial Technology (3)
- GEOG 2010 Human Geography (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
- General Education Course - Life Sciences Lecture (3)
- Total Semester Hours: 16-15

Semester 4
- Critical: GEOG 2010/GEOG 2040; Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- Fourth Course in Foreign Language Sequence (4-3)
- General Education Course - Social Sciences (2000-level) (3)
- Approved Electives (5-7)
- Total Semester Hours: 15-16

Semester 5
- General Education Course - Arts (3)
- Geography Elective: Regional Group1 (3)
- Geography Elective: Mapping Sciences1 (3)
- Approved Electives (6)
- Total Semester Hours: 15

Semester 6
- Geography Electives: Mapping Sciences1 (6)
- Geography Electives: Systematic Group1 (3)
- General Education Course - Humanities (Other Than Foreign Language) (3)
- Approved Electives (3)
- Total Semester Hours: 15

Semester 7
- Upper Division Geography Elective (3)
- Geography Elective: Mapping Sciences1 (3)
- Approved Electives (9)
- Total Semester Hours: 15

Semester 8
- Geography Electives: Systematic Group1 (3)
- Approved Electives (12)
- Total Semester Hours: 15

120 Total Sem. Hrs.

GEOG ELECTIVES:

1. MAPPING SCIENCES: GEOG 4020, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048
2. REGIONAL GROUP: ANTH 4051, GEOG 3001, GEOG 4002, GEOG 4031, GEOG 4037, GEOG 4052, or other approved regional course.
3. SYSTEMATIC GROUP: GEOG 2050, GEOG 3070, GEOG 4012, GEOG 4061, GEOG 4073, GEOG 4074, GEOG 4077, GEOG 4078, GEOG 4079, GEOG 4080, GEOG 4086, GEOG 4087, GEOG 4090, or other approved systematic geography course.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department: Geography and Anthropology  
College: Humanities and Social Sciences  
Name of Concentration: Geographic Information Science  
Name of Curriculum/Major: Geography  
Type of Degree: BS  
Date: 10/6/16

Has this change been discussed with and approved by all departments/colleges affected?  Yes ( )  No ( )  N/A (x)

ATTACH JUSTIFICATION for all actions: Use separate sheet.  
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]  
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)

( x ) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current concentration:</td>
<td>12</td>
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</tbody>
</table>

APPROVALS:

Department Faculty Approval Date  11/13/15  
Department Chair's Signature  11/13/15  
College Faculty Approval Date  10-12-16  
College Dean's Signature  11/16/16  
Academic Affairs Approval  11/10/16

College/Division/Department Contact:

Contact E-mail:
GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
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<td>ENGL 2000</td>
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<td></td>
</tr>
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<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course</td>
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<td>(from mathematics department): MATH 1021</td>
<td>3</td>
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<td>MATH course.)</td>
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</tr>
<tr>
<td></td>
<td>General Education analytical reasoning</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>course: MATH 1022</td>
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<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
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<td></td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course</td>
<td>6</td>
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<td>(If 2 course sequence is taken in the</td>
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<td>physical sciences, the additional 3</td>
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<td>hour course must be from the life</td>
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<td>sciences, and vice versa.)</td>
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<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course:</td>
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<td>(At least three hours at the 2000-level.)</td>
<td>GEOG 1001 or 1003</td>
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<td>General Education social science course</td>
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<td>(2000-level)</td>
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</table>
JUSTIFICATION of changes to concentration in GIS (under BS/BA in Geog. 
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is being added as an option.
PRESENT

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003; MATH 1021.
SEMESTER 3: GEOG 2050 and GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: Second Course in Foreign Language Sequence.
SEMESTER 5: GEOG 2040, ENGL 2000.

Semester 1
- Critical: "C" or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- First Course in Foreign Language Sequence (4)
- MATH 1021 College Algebra (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3)

Total Semester Hours: 15-14

Semester 2
- Critical: GEOG 1001 or GEOG 1003, MATH 1021.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces; Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Life Sciences Lecture (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 16

Semester 3
- Critical: GEOG 2050 and GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- MATH 1022 Plane Trigonometry (3)
- CSC 1250 Introduction to Programming (3) or CSC 1253 Computer Science I with C++ (3)
- General Education Course - Social Sciences (Other than GEOG; 2000-Level) (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 16-15

Semester 4
- Critical: Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- GEOG 2040 Geospatial Technology (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- Fourth Course in Foreign Language Sequence (4-3)

Total Semester Hours: 15-14

Semester 5
- EXST 2201 Introduction to Statistical Analysis (4)
- Geography Elective: Mapping Sciences or Physical (3)
- General Education Course - Arts (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
- Approved Elective (3)

Total Semester Hours: 16

Semester 6
- Geography Electives: Mapping Sciences or Physical (6-9)
- Science Elective (3000-level or Above Other Than Geog) (3)
- Approved Electives (6)

Total Semester Hours: 15-18

Semester 7
- Geography Electives: Mapping Sciences or Physical (6-3)
- Approved Electives (9)

Total Semester Hours: 15-12

Semester 8
- Geography Electives: Mapping Sciences or Physical (6)
- Approved Electives (8-10)

Total Semester Hours: 14-16

120 Total Sem. Hrs.

GEOG ELECTIVES:
- Physical Geography: GEOG 3013, GEOG 3070, GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4026, GEOG 4041, GEOG 4053, GEOG 4221.
PROPOSED

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.

Critical: “C” or better in ENGL 1001.

ENGL 1001 English Composition (3)

Critical: Second Course in Foreign Language Sequence.

GEOG 1001 or GEOG 1003; MATH 1021.

ENGL 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)

First Course in Foreign Language Sequence (4)

MATH 1021 College Algebra (3)

First Course in Foreign Language Sequence (4)

GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3)

Total Semester Hours: 16

Semester 2

Critical: GEOG 1001 or GEOG 1003; MATH 1021.

GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3)

Critical: GEOG 2050 and GEOG 2051: First Course in Foreign Language Sequence, Admission to the College.

MATH 1022 Plane Trigonometry (3)

Critical: Second Course in Foreign Language Sequence.

CSC 1250 Introduction to Programming (3) or CSC 1253 Computer Science I with C++ (3)

Critical: Second Course in Foreign Language Sequence (4-3)

General Education Course - Life Sciences Lecture (3)

General Education Course - Life Sciences Lecture (3)

Total Semester Hours: 13

Semester 3

Critical: GEOG 2050 and GEOG 2051: First Course in Foreign Language Sequence.

General Education Course - Social Sciences (Other than GEOG; 2000-Level) (3)

Third Course in Foreign Language Sequence (4-3)

General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 16-15

Semester 4

Critical: Second Course in Foreign Language Sequence.

ENGL 2000 English Composition (3)

GEOG 2040 Geospatial Technology (3)

MATH 1500 Analytic Geometry and Calculus I (5)

Fourth Course in Foreign Language Sequence (4-3)

Total Semester Hours: 15-14

Semester 5


ENGL 2201 Introduction to Statistical Analysis (4)

GEOG Elective: Mapping Sciences or Physical (3)

General Education Course - Arts (3)

General Education Course - Humanities (Other than English or Foreign Language) (3)

Approved Elective (3)

Total Semester Hours: 16

Semester 6

GEOG Electives: Mapping Sciences or Physical (6-9)

Science Elective (3000-level or Above Other Than Geog) (3)

Approved Electives (6)

Total Semester Hours: 15-18

Semester 7

GEOG 2200; GEOG 3013; GEOG 3070.

GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4029, GEOG 4041, GEOG 4083, GEOG 4221.

GEOG 2200; GEOG 3013; GEOG 3070.

GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4029, GEOG 4041, GEOG 4083, GEOG 4221.

Total Semester Hours: 15-18

120 Total Sem. Hrs.

GEOG ELECTIVES:

Mapping Sciences: GEOG 4020, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048

Physical Geography: GEOG 2080, GEOG 3013, GEOG 3070, GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4029, GEOG 4041, GEOG 4083, GEOG 4221.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department: Geography and Anthropology
College: Humanities and Social Sciences
Name of Concentration: Disaster Science and Management
Name of Curriculum/Major: Geography
Type of Degree: BS
Date: 10/6/16

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)
( ) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
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<tbody>
<tr>
<td>Total semester hours in current concentration: 12</td>
<td>Total semester hours in proposed concentration: 12</td>
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</table>

APPROVALS:

Department Faculty Approval Date: 9/18/15
Department Chair’s Signature: [Signature]
Department Chair’s Signature: [Signature]
Chair, FS C & C Committee: [Signature]

College Faculty Approval Date: 10/12/16
College Dean’s Signature: [Signature]
College Dean’s Signature: [Signature]
Academic Affairs Approval: [Signature]

College/Division/Department Contact:
Contact E-mail: [Email]
GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

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<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
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<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
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<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course: MATH 1022</td>
<td>3</td>
<td>(1st (5h)</td>
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<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
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<td>(x) 1st (5h)</td>
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<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td>(x) 1st (5h)</td>
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<td>(4th (8h)</td>
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<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence: GEOG 2050/2051</td>
<td>6</td>
<td>(x) 1st (5h)</td>
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<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course</td>
<td>3</td>
<td>(x) 1st (5h)</td>
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<td>(4th (8h)</td>
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<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course: GEOG 1001 or 1003</td>
<td>3</td>
<td>(x) 1st (5h)</td>
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<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td>(x) 1st (5h)</td>
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</tbody>
</table>
JUSTIFICATION of changes to concentration in DSM (under BS/BA in Geog.
Steve Namikas, Geography undergraduate advisor

Geog 2039, Cartographic Drafting and Graphic Presentation, is being deleted because faculty member who
taught this course retired several years ago and it is no longer relevant to the discipline.

Geog 2080, Humans and the Environment, is a course that integrates physical and human Geography and is
being added as an option.
PRESENT

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
SEMESTER 2: GEOG 1001 or GEOG 1003; MATH 1021.
SEMESTER 3: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
SEMESTER 4: Second Course in Foreign Language Sequence.
SEMESTER 5: GEOG 2040; ENGL 2000.

Semester 1

- Critical: “C” or better in ENGL 1001.
- ENGL 1001 English Composition (3)
- GEOG 1001 Human Geography: Americas and Europe (3) or GEOG 1003 Human Geography: Africa and Asia (3)
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- MATH 1021 College Algebra (3)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 16

Semester 2

- Critical: GEOG 1001 or GEOG 1003; MATH 1021.
- GEOG 2050 Physical Geography: The Atmosphere (3) or GEOG 2051 Physical Geography: Land and Water Surfaces.
- Plant and Animal Realms (3)
- Second Course in Foreign Language Sequence (4)
- General Education Course - Life Sciences Lecture (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 13

Semester 3

- Critical: GEOG 2050 or GEOG 2051; First Course in Foreign Language Sequence; Admission to the College.
- MATH 1022 Plane Trigonometry (3)
- CSC 1250 Introduction to Programming (3) or CSC 1253 Computer Science I with C++ (3)
- General Education Course - Social Sciences (Other than GEOG; 2000-Level) (3)
- Third Course in Foreign Language Sequence (4-3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)

Total Semester Hours: 16-15

Semester 4

- Critical: Second Course in Foreign Language Sequence.
- ENGL 2000 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- GEOG 2040 Geospatial Technology (3)
- Fourth Course in Foreign Language Sequence (4-3)

Total Semester Hours: 15-14

Semester 5

- Critical: GEOG 2040; ENGL 2000
- EXST 2201 Introduction to Statistical Analysis (4)
- Geography Elective: Mapping Sciences or Physical (3)
- General Education Course - Arts (3)
- General Education Course - Humanities (Other than English or Foreign Language) (3)
- DSM Course* (3)

Total Semester Hours: 16

Semester 6

- Geography Electives: Mapping Sciences or Physical (3-6)
- Science Elective (3000-level or Above Other Than Geog) (3)
- DSM Course* (3)
- Approved Electives (6)

Total Semester Hours: 15-18

Semester 7

- Geography Electives: Mapping Sciences or Physical (6-3)
- DSM Course* (3)
- Approved Electives (6)

Total Semester Hours: 15-12

Semester 8

- Geography Electives: Mapping Sciences or Physical (6)
- DSM Course* (3)
- Approved Electives (5-7)

Total Semester Hours: 14-16

120 Total Sem. Hrs.

GEOG ELECTIVES:

Mapping Sciences: GEOG 2039, GEOG 4020, GEOG 4044, GEOG 4045, GEOG 4046, GEOG 4047, GEOG 4048
Physical Geography: GEOG 3013, GEOG 3070, GEOG 4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG 4024, GEOG 4028, GEOG 4041, GEOG 4063, GEOG 4221
*DSM Courses: GEOG 2200, GEOG 2210, GEOG 4200; and one of the three mapping sciences classes (GEOG 4044, GEOG 4045, GEOG 4047)
PROPOSED

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001.
   ENGL 1001 English Composition (3)
   GEOG 1001 Human Geography: Americas and Europe (3) or
   GEOG 1003 Human Geography: Africa and Asia (3)
   GEOG 2050 Physical Geography: The Atmosphere (3) or
   GEOG 2051 Physical Geography: Land and Water Surfaces,
   Plant and Animal Realms (3)
   MATH 1021 College Algebra (3)
   First Course in Foreign Language Sequence (4)
Total Semester Hours: 16

SEMESTER 2

   Critical: GEOG 1001 or GEOG 1003; MATH 1021
   GEOG 2050 Physical Geography: The Atmosphere (3) or
   GEOG 2051 Physical Geography: Land and Water Surfaces,
   Plant and Animal Realms (3)
   Second Course in Foreign Language Sequence (4)
   General Education Course - Life Sciences Lecture (3)
Total Semester Hours: 13

SEMESTER 3

   Critical: GEOG 2050 or GEOG 2051; First Course in Foreign
   Language Sequence; Admission to the College.
   MATH 1022 Plane Trigonometry (3)
   CSC 1250 Introduction to Programming (3) or
   CSC 1253 Computer Science I with C++ (3)
   General Education Course - Social Sciences (Other than GEOG;
   2000-Level) (3)
   Third Course in Foreign Language Sequence (4-3)
Total Semester Hours: 16-15

SEMESTER 4

   Critical: Second Course in Foreign Language Sequence.
   ENGL 2000 English Composition (3)
   MATH 1550 Analytic Geometry and Calculus I (5)
   GEOG 2040 Geospatial Technology (3)
   Fourth Course in Foreign Language Sequence (4-3)
Total Semester Hours: 15-14

Semester 5

   EXST 2201 Introduction to Statistical Analysis (4)
   Geography Elective: Mapping Sciences or Physical (3)
   General Education Course - Arts (3)
   General Education Course - Humanities (Other than English or
   Foreign Language) (3)
   DSM Course* (3)
Total Semester Hours: 16

Semester 6

   Geography Electives: Mapping Sciences or Physical (3-6)
   Science Elective (3000-level or Above Other Than Geog) (3)
   DSM Course* (3)
   Approved Electives (6)
Total Semester Hours: 15-18

Semester 7

   Geography Electives: Mapping Sciences or Physical (6-3)
   DSM Course* (3)
   Approved Electives (6)
Total Semester Hours: 15-12

Semester 8

   Geography Electives: Mapping Sciences or Physical (6)
   DSM Course* (3)
   Approved Electives (5-7)
Total Semester Hours: 14-16

120 Total Sem. Hrs.

GEOG ELECTIVES:

Mapping Sciences: GEOG 4020, GEOG 4044, GEOG 4045, GEOG
4046, GEOG 4047, GEOG 4048.
Physical Geography: GEOG 2060, GEOG 3013, GEOG 3070, GEOG
4014, GEOG 4015, GEOG 4016, GEOG 4018, GEOG 4022, GEOG
4024, GEOG 4029, GEOG 4041, GEOG 4083, GEOG 4221.
*DSM Courses: GEOG 2200, GEOG 2210, GEOG 4200, and one of the
three mapping sciences classes (GEOG 4044, GEOG 4046, GEOG 4047)